

FLUXAN

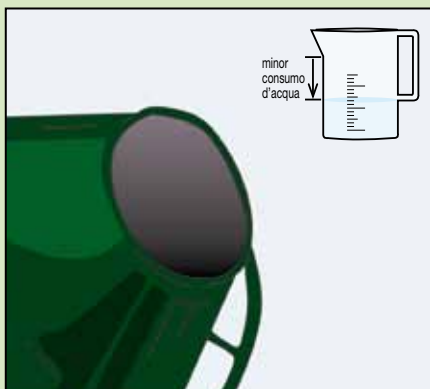
**SUPERFLUIDISING ADDITIVE FOR MAKING CONCRETE EASIER TO WORK AND MORE WATERPROOF
ADDITIVE FOR HEATED FLOORING SCREEDS**



CHARACTERISTICS	ENVIRONMENT	METHOD OF USE	PRECAUTIONS
 WATER BASED	 ECO GREEN	 MIX MECHANICALLY	 KEEP AWAY FROM FROST

PROBLEM

HOW TO IMPROVE THE WORKABILITY OF CONCRETE, LOWERING THE WATER/CEMENT RATIO



Often, in order to improve the workability of concrete, an excessive quantity of water is added which makes the concrete less waterproof and weaker.

In order to avoid this mistake it is essential to use a suitable additive that lowers the water/cement ratio and improves the workability and fluidity of the concrete.

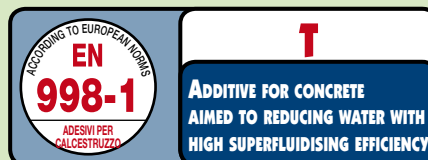
SOLUTION

FLUXAN is an additive obtained through the synthesis of polycondensing resins. It is a brownish liquid which is totally soluble in water.

FLUXAN contains no chlorides and does not affect setting times.

FLUXAN has three important functions regarding fresh and set concrete with evident improvements.

- Improved fluidity of the concrete without causing separation or bleeding. This is the result of the lubricating effect of the mineral charges.
- An energetic dispersion and deflocculating action towards the cement binders which favours hydration.
- A lower water/cement ratio, which increases the resistance and the waterproof qualities of the concrete.



APPLICATION FIELDS

FLUXAN is an additive suitable for making concrete used in the building sector where fluidity, mechanical resistance, impermeability and durability are essential factors and also the ones which are improved. **FLUXAN** is used in the following applications:

- Self-levelling or fibre reinforced concrete work needing a considerable amount of reinforcement such as concrete beds, the flooring of industrial sheds, large thin concrete areas, concrete with a complex shape.
- Prefabricated and pumped concrete.
- Ready-mixed transported concrete.
- Injected mortar or grout.
- Prefabricated cast concrete, both for normal and high resistance concrete, recompressed concrete with or without forced maturity.
- Foundations, concrete beds, domestic and industrial construction walls in contact with the water table or sulphates.
- Underground or suspended concrete tanks and cisterns.
- Scaffolding on bridges and viaducts.
- Visible surfaces in general.
- Waterproof plasters.
- Screeds for heated floors.

ADVANTAGES

- **Reduction in the amount of water used in the mix with the consequent increased waterproofing and durability of the concrete.**
- **Increased mechanical resistance.**
- **Great increase in workability with the separation of the elements of the mix.**
- **Higher quality concrete regarding: compactness, impermeability and adhesion to reinforcing rods.**
- **It improves the performances of screeds of heated floors.**

METHOD OF USE

It is advisable to carry out a series of tests on site to determine the correct dosage. This will depend on the other materials and the atmospheric conditions. **FLUXAN** makes it possible to obtain super-fluid concrete, with a slump of 20 cm, starting from concrete with the consistency of damp earth or plastic just by varying the dosage.

• MIX PREPARATION

How to add **FLUXAN**:

- For concrete prepared on site, add **FLUXAN** to the water of the mix.

- For ready-mixed concrete, **FLUXAN** is added in the required amount to the wet concrete mix in the mixer after all of the components such as cement and aggregates have been added. Mix for approximately 3 minutes.
- For concrete mixed in a mixer or cement truck, **FLUXAN** should be added only shortly before being used and mixed strictly for the amount of time necessary to obtain a smooth mix.

(See following)



TECHNICAL CHARACTERISTICS

	FLUXAN
Class and type (EN 934-2)	T3.1/3.2
Aspect	liquid
Colour	dark brown
Specific weight (volumetric mass) at 20°C	1.15±0.05 kg/litre
pH	9
Ford 4 viscosity at 20°C	11 seconds
Dry residue in weight at 110°C	30%
Water solubility	total
Calcium chloride content	absent
Flammability	not flammable
Shelf life in the original containers	24 months

(See previous)

AN EXAMPLE OF THE COMPOSITION FOR WATERPROOF CONCRETE

- Water/cement ratio = 0.5
- Slump = 20 cm
- Maturing time: 14 days
- Minimum cement dose: 350 kg/m³
- Aggregates included in the grain size D 30 (UNI 7163)
- 1.5% of FLUXAN and 1% of Saturfix water repellent additive of the weight of the cement until obtaining a plastic mix.

COVERAGE

0.7% -2% of the weight of the cement. The optimal dosage of **FLUXAN** depends on the characteristics of the concrete mix and the mineralogy of the cement used.

PRECAUTIONS

- Avoid exposing the product to the sun rays.
- Keep the cans tightly closed when in storage.
- If the product freezes, **FLUXAN** can be used when it has thawed out.
- Handling time: the fluidising action of **FLUXAN** is limited and lasts roughly 40-60 mi-

minutes depending on the air temperature and the type of cement used. When the mix starts losing its fluidity it will be necessary to add another dose of **FLUXAN**.

- We recommend paying particular attention to joints in the castings, especially in foundations or tanks which will contain water.
- Protect the concrete from rapid drying with the appropriate curing agents.
- Keep the containers tightly closed and protected from frost and from direct sunlight.

The numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

SAFETY REGULATIONS

- If the product comes into contact with the eyes, wash immediately with abundant water.
- If swallowed seek medical advice immediately.
- Do not throw residues down the drain.

PACKAGING

FLUXAN
20 kg-pails.
5 kg-cans.

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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Construction Systems and Products

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